



Bilby 3D

MATERIAL DATA SAFETY SHEET

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

Section 1: AUSTRALIAN COMPANY DETAILS

In Australia the product is imported and distributed by:
Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

Section 2: AUSTRALIAN EMERGENCY CONTACT

Emergency Contact

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020



Zetamix Stainless steel datasheet

PRODUCT DESCRIPTION

Zetamix Stainless Steel is a 316L stainless steel filament used for 3D printing. The binders mixed with stainless steel powder enables to have a flexible and resistant filament usable with classical FFF printers (Fused Filament Fabrication). Printed parts need to be debinded and sintered.

Diameter available: 1,75mm and 2,85mm
Postprocess : debinding and sintering

IDENTIFICATION

Trade name	Zetamix Stainless steel
Chemical name of raw material	316 L stainless steel
Binding proportion (vol) %	45%
Binding proportion (mass) %	9%
Metal proportion (vol) %	55%
Metal proportion (mass) %	91%

PRINTING AND SINTERING RECOMMANDATION

Printing temperature	170°C
No solvent debinding	-
Sintering temperature	1300°C, under hydrogen
Shrinkage	10%
Density	90-95%

TYPICAL MATERIEL PROPERTIES

Physical property	Typical value
Specific Gravity [g/cm ³]	4,5
MFR [g/10(min)]	250
MVR [cm ³ /10(min)]	56
Moisture Absorption 24 hours [%]	<0,05%
Moisture Absorption , 7 days [%]	<0,1%
Shor D	35

MECHANICAL PROPERTIE ON TESTING SPECIMEN

Strength limit → 100 MPa

Breaking strength → 300 – 600MPa

Disclaimer : The results presented above are for information and do not constitute a legally binding Material Safety Data sheet (MSDS). Moreover, values are significantly dependent on printing setting, debinding parametters , operators experience and surrounding conditions. Any descriptions, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.